First Symposium Meteorological Observations and Instrumentation
Feb 10-14, 1960 Washington, D.C
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Part I. Observations

Global Observation Systems: Conventional vs. Novel
The Degree of Uniformity Required in Network Operations
Theoretical and Practical Considerations for Network Design
The Worldwide Status of Marine Networks
Future Role of the WMO in International Observing Programs
Status of the World Weather Watch Plan
Implications of Advancing Technology on Needs for World Meteorological Information
The Role of Satellite in Future Observing Systems
Some Basic Characteristics of Observing Data
Meteorological Parameters Required in an Automatic Data Processing Complex
Developments in Stratospheric and Mesospheric Analysis Which Dictate the Need for Additional Upper Air Data
Algorithms for Sequential and Random Observations
The Statistical Evaluation of Observing Data
Reduction of Surface Pressure to Functions Useful in Analysis and Forecasting
Centralized Quality Control and Evaluations Programs
Analytical Procedures for the Quality Control of Meteorological Data
Equipment Maintenance as Part of Quality Control Program for Observations
Standards for Equipment Maintenance
Legal and Legislative Aspects of Meteorological Observing Programs

Panel Discussions:
Why do we take meteorological observations and what is wrong with our present system?
The impact of the global atmospheric research program on observing programs.
The need, meaning and usefulness of meteorological observations in aviation.
Parameterization of energy flux between ocean and atmosphere.

Part II. Instrumentation

Basic considerations for equipment design.
Translation of user requirements into equipment development criteria
Theoretical considerations in instrument design
Practical considerations in instrument design